Xytron™

Xytron™ G3080E

PPS-I-GF30

30% Glass Reinforced, Improved Impact

Properties	Typical Data	Unit	Test Method
Rheological properties	Value		
Molding shrinkage (parallel)	0.2	%	ISO 294-4
Molding shrinkage (normal)	0.65	%	ISO 294-4
Mechanical properties	Value		
Tensile modulus	9300	MPa	ISO 527-1/-2
Tensile modulus (120°C)	4500	MPa	ISO 527-1/-2
Tensile modulus (160°C)	2500	MPa	ISO 527-1/-2
Tensile modulus (200°C)	1900	MPa	ISO 527-1/-2
Stress at break	140	MPa	ISO 527-1/-2
Stress at break (120°C)	63	MPa	ISO 527-1/-2
Stress at break (160°C)	48	MPa	ISO 527-1/-2
Stress at break (200°C)	45	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Strain at break (120°C)	6.8	%	ISO 527-1/-2
Strain at break (160°C)	8.5	%	ISO 527-1/-2
Strain at break (200°C)	9	%	ISO 527-1/-2
Flexural modulus	7900	MPa	ISO 178
Flexural strength	205	MPa	ISO 178
Flexural modulus (120°C)	6800	MPa	ISO 178
Flexural modulus (160°C)	2800	MPa	ISO 178
Flexural modulus (200°C)	2000	MPa	ISO 178
Charpy impact strength (+23°C)	55	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	60	kJ/m²	ISO 179/1eU

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Property Data

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Properties	Typical Data	Unit	Test Method
Charpy notched impact strength (+23°C)	16	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11	kJ/m²	ISO 179/1eA
Izod impact strength (+23°C)	55	kJ/m²	ISO 180/1U
Izod notched impact strength (+23°C)	16.5	kJ/m²	ISO 180/1A
Thermal properties	**Value**		
Melting temperature (10°C/min)	280	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	250	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.18	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	0.14	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.1	E-4/°C	ISO 11359-1/-2
Electrical properties	**Value**		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	36	kV/mm	IEC 60243-1
Comparative tracking index	175	V	IEC 60112
Other properties	**Value**		
Density	1450	kg/m³	ISO 1183

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